



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/761,077
Filing Date: January 20, 2004
Applicant: Buchheit et al.
Group Art Unit: 1755
Examiner: Anthony J. Green
Entitled: CORROSION RESISTANT COATING
WITH SELF-HEALING CHARACTERISTICS
Docket No.: OSU1159-174B

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
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I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	Date of Deposit: <u>March 27, 2006</u> <u>Trisha M. Beachy-Bryant</u> Trisha M. Beachy-Bryant, Paralegal

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97-1.98

As authorized and encouraged under 37 CFR §§ 1.97-1.98 and the provisions of MPEP §§ 609 and 707.05(b), Applicant submits on the attached form PTO-1449 certain patent references, publications and/or other information that the Patent and Trademark Office may wish to consider in examining the above-identified patent application. Applicant submits this statement in accordance with their duty of disclosure under 37 CFR § 1.56.

In accordance with 37 CFR § 1.98, a copy of each document, other than the U.S. patent documents, is included for the express purpose of providing the Patent and Trademark Office with ample opportunity to evaluate the same and arrive at an independent assessment of the materiality of each, if any, to the examination of the

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above-identified application. In reviewing the enclosed copies, the Examiner is instructed to ignore any underscoring or highlighting which may have been done because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this statement are the best copies available at this time.

The identification of any document in this statement is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law.

This statement is filed in accordance with 37 CFR § 1.97(c), after the mailing date of a first Office Action on the merits, but before the mailing date of either a final action or a Notice of Allowance. This statement is accompanied by a check in the amount of \$180.00 as set forth in 37 CFR § 1.17(p) and required by 37 CFR § 1.97(c).

Applicant respectfully requests that the documents cited in this statement be made of record in the normal manner and that such documents appear on the printed patent as being considered and made of record.

Respectfully submitted,

Date: 3-27-06

By:


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**FORM PTO-1449 TO BE FILED WITH
INFORMATION DISCLOSURE STATEMENT**

U.S. Department of Commerce	:	Atty. Docket No.: OSU1159-174B
Patent and Trademark Office	:	Application No.: 10/761,077
	:	Filing Date: January 20, 2004
INFORMATION	:	Applicant: Buchheit et al.
DISCLOSURE STATEMENT	:	Group Art Unit: 1755
BY APPLICANT	:	Examiner: Anthony J. Green

U.S. PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name(s)	Class/ Subclass
	4,873,011	10/10/1989	Jung et al.	252/75
	5,520,750	5/28/1996	Riley	148/261
	5,743,971	4/28/1998	Inoue et al.	148/247
	5,866,652	2/2/1999	Hager et al.	524/701
	5,886,652	3/23/1999	Adachi et al.	341/67
	5,938,861	8/17/1999	Inoue et al.	148/247
	5,954,893	9/21/1999	Baldwin et al.	148/272
	5,985,047	11/16/1999	Buxton et al.	148/247
	6,027,579	2/22/2000	Das et al.	148/256
	6,077,885	6/20/2000	Hager et al.	523/445

OTHER DOCUMENTS

Examiner's Initial	Citation
	Akiyama et al., "The Influence of Dichromate Ions on Aluminum Dissolution Kinetics in Artificial Crevice Electrode Cells", Journal of The Electrochemical Society, 146 (11), 1999, pp. 4095-4100.
	Buchheit et al., "Active Corrosion Protection in Ce-Modified Hydrotalcite Conversion Coatings", Corrosion, Vol. 58, No. 1, January 2002, pp. 3-14.
	Buchheit et al., "Active corrosion protection and corrosion sensing in chromate-free organic coatings", Progress in Organic Coatings, 47, 2003, pp. 174-182.
	Clark et al., "A Galvanic Corrosion Approach to Investigating Chromate Effects on Aluminum Alloy 2024-T3", Journal of The Electrochemical Society, 149 (5), 2002, pp. B179-B185.

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	Ilevbare et al., "Oxygen Reduction Reaction Kinetics on Chromate Conversion Coated Al-Cu, Al-Cu-Mg, and Al-Cu-Mn-Fe Intermetallic Compounds, Journal of The Electrochemical Society, 148 (5), 2001, pp. B196-207.
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	Kendig et al., "Corrosion Inhibition of Al and Al Alloys by Hexavalent Cr Compounds – A Mechanistic Overview", 2000, pp. 1-31.
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	Laget et al., "Thermal Stability and Aging Characteristics of Chromate Conversion Coatings on Aluminum Alloy 2024-T3", Electrochemical Society Proceeding, Vol. 99-26, 2000, pp. 173-182.

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	Laget et al., "Dehydration-Induced Loss of Corrosion Protection Properties in Chromate Conversion Coatings of Aluminum Alloy 2024-T3", Journal of The Electrochemical Society, 150 (9), 2003, pp. B425-B432.
	Newhard, "Conversion Coatings for Aluminum", Metal Finishings, July 1972, pp. 49-53.
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	Xia et al., "Structure and Function of Ferricyanide in the Formation of Chromate Conversion Coatings on Aluminum Aircraft Alloy", Journal of The Electrochemical Society, 146 (10), 1999, pp. 3696-3701.

Examiner's Initial	Citation
	Zhang et al., "Characterization of Chromate Conversion Coating Formation and Breakdown Using Electrode Arrays", Journal of The Electrochemical Society, 149 (8), 2002, pp. B357-B365.
	Zhao et al., "Corrosion Protection of Untreated AA-2024-T3 in Chloride Solution by a Chromate Conversion Coating Monitored with Raman Spectroscopy", J. Electrochem. Soc., Vol. 145, No. 7, July 1998, pp. 2258-2264.

Examiner	Date Considered
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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

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